

## Product Datasheet

# 6-port 10/100M Industrial Ethernet Switch

(ONV-IPS31064)



## OVERVIEW

The ONV-IPS31064 is a 10/100M industrial Ethernet switch independently developed by ONV. It is designed to meet industrial fields and systems and can operate stably for a long time in harsh environments. It has 6\*10/100/1000M RJ45 ports. Each port can support full line-rate forwarding. ONV-IPS31064 industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP40, It can support dual redundant power supply, low power consumption and no fan cooling technology, MTBF average trouble-free working time up to 35 years, 5-year warranty. It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network.

Unmanaged models, plug and play, no configuration, easy to use.

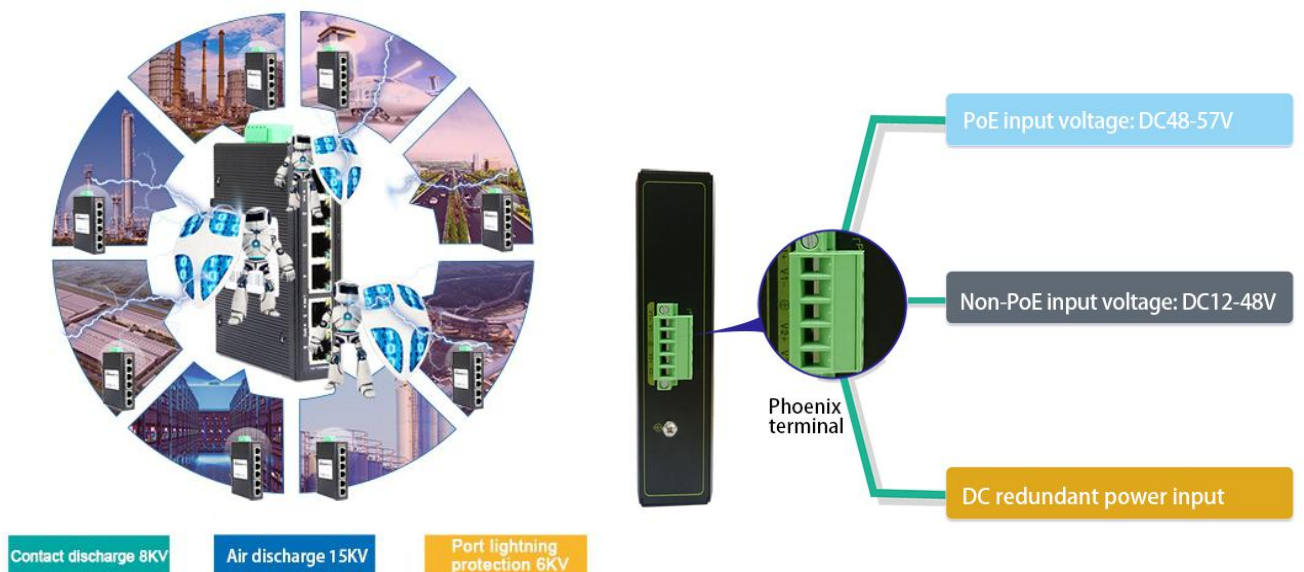
## FEATURE

### ■ 100M Ethernet access, full wire transmission

- ◇ All series supports "10/100M RJ45 port and dual uplink RJ45 port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

### ■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- ◇ Industrial dual power input.
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.



### ■ Stable and reliable

- ◇ CE, FCC, RoHS.
- ◇ Low power consumption, No fan, aluminum shell.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link.

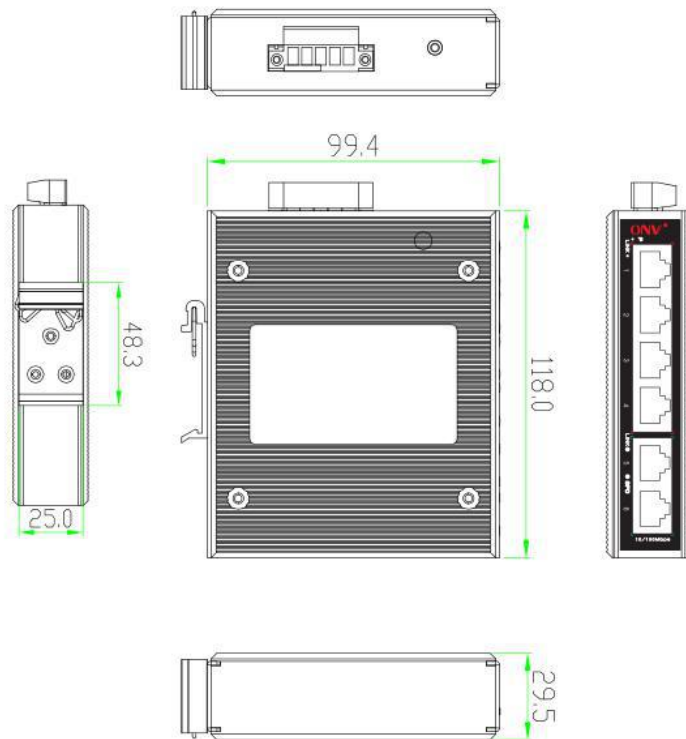
## TECHNICAL SPECIFICATION

Model	ONV-IPS31064	ONV-IPS31064F
<b>Interface Characteristics</b>		
Fixed Port	6*10/100Base-TX RJ45 ports (Data) 2 set of V+, V- redundant DC power ports (5 Pin Phoenix terminal)	4*10/100Base-TX RJ45 ports (Data) 2*155M uplink SFP ports (Data) 2 set of V+, V- redundant DC power ports (5 Pin Phoenix terminal)
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-T: Cat5e or later UTP(≤100 meter)	
Ethernet Port	10/100Base-TX, auto-sensing, Full/half duplex MDI/MDI-X self-adaption	
<b>Chip Parameter</b>		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	1.6Gbps	
Forwarding Rate@64byte	0.89Mpps	
MAC	1K	
Buffer Memory	768K	
Jumbo Frame	1536bytes	
LED Indicator	Power: PWR (green), network: Link (yellow), Rate: Speed (green)	Power: PWR (green), network: Link (yellow), fiber port: 5/6 (green)
<b>Power</b>		
Working Voltage	12-48VDC; 5 Pin industrial Phoenix terminal, support anti-reverse	

	protection.	
Power Consumption	Standby<4W, Full load<5W	Standby<4W, Full load<7W
Power Supply	No, optional 24V/24W industrial power supply	
<b>Physical Parameter</b>		
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing	
Dimension (L*W*H)	119*100*30mm	
Net /Gross Weight	<0.5 kg / <0.7 kg	
Installation	Desktop, DIN rail	
<b>Certification &amp; Warranty</b>		
Lightning protection / protection level	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class A</p> <p>IEC61000-6-2(Common Industrial Standard)</p>	
Mechanical Properties	<p>IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>	

Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS
Warranty	5 years, lifelong maintenance.

## DIMENSION



## ORDERING INFORMATION

Model	Description	Recommended Power Supply
ONV-IPS31064	Unmanaged industrial Ethernet switch with 6*10/100M RJ45 ports. It can support dual DC redundant power input and DIN rail mounting.	24V/24W
ONV-IPS31064F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 2*155M uplink SFP ports. It can support dual DC redundant power input and DIN rail mounting.	24V/24W

**Note:** Industrial Ethernet switch does not match the power supply .

## PACKING LIST

	CONTENT	QTY	UNIT
PACKING LIST	6-port 10/100M industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## POWER SUPPLY SELECTION TABLE

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	Din Rail type 24W single set of output power supply; Input Voltage:AC 100V~240V 50-60H,0.35A Output Voltage:DC 24V 1.0A Operation Temperature: -40℃—+70℃	PC

## RELATED PRODUCT

Model	Description
ONV-IPS31021F	Unmanaged industrial Ethernet fiber switch with 1*10/100M RJ45 port and 1*155M SC port,By default, the SC port 1310mm/20km single-mode dual-fiber module. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31032F	Unmanaged industrial Ethernet fiber switch with 2*10/100M RJ45 port and 1*155M SC port, By default, the SC port 1310mm/20km single-mode dual-fiber module. It can support dual DC redundant power input and DIN rail mounting.
ONV-IPS31004F	Unmanaged industrial Ethernet fiber switch with 4*10/100M RJ45 ports and 1*155M SC port, By default, the SC port 1310mm/20km single-mode dual-fiber module. It can support dual DC redundant power input and DIN rail mounting.

ONV-IPS31084F	Unmanaged industrial Ethernet fiber switch with 6*10/100M RJ45 ports and 2*155M SC ports. It can support DC dual redundant power input and DIN rail mounting.
ONV-IPS31108F-8EF	Unmanaged industrial Ethernet fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 2*1000M SFP slot ports (including combo port). It can support DC dual redundant power input and DIN rail mounting.

## CONTACT US



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